

SEQUENCE LISTING

<110> C. Frank Bennett
Jacqueline Wyatt

<120> ANTISENSE MODULATION OF PHOSPHOLIPASE A2, GROUP V (CA2+-DEPENDENT)
EXPRESSION

<130> RTS-0325

<160> 84

<210> 1
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 1
tccgtcatcg ctccctcaggg

20

<210> 2
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 2
atgcattctg cccccaagga

20

<210> 3
<211> 1016
<212> DNA
<213> Homo sapiens

<220>

<220>

<221> CDS

<222> (133)...(549)

<400> 3

atggatacca atgttccgac tggagacggg gagcccgcca gacccgggtc tccaggggtct 60

gcccaaggaa gttgctcatg ggagcagacc cctagagcag gatttgaggc caggccaaag 120

agaaccccag ag atg aaa ggc ctc ctc cca ctg gct tgg ttc ctg gct tgt 171

Met Lys Gly Leu Leu Pro Leu Ala Trp Phe Leu Ala Cys

1

5

10

agt gtg cct gct gtg caa gga ggc ttg ctg gac cta aaa tca atg atc 219

Ser Val Pro Ala Val Gln Gly Gly Leu Leu Asp Leu Lys Ser Met Ile

15

20

25

gag aag gtg aca ggg aag aac gcc ctg aca aac tac ggc ttc tac ggc 267

Glu Lys Val Thr Gly Lys Asn Ala Leu Thr Asn Tyr Gly Phe Tyr Gly

30

35

40

45

tgt tac tgc ggc tgg ggc ggc cga gga acc ccc aag gat ggc acc gat 315

Cys Tyr Cys Gly Trp Gly Gly Arg Gly Thr Pro Lys Asp Gly Thr Asp

50

55

60

tgg tgc tgt tgg gcg cat gac cac tgc tat ggg cgg ctg gag gag aag 363

Trp Cys Cys Trp Ala His Asp His Cys Tyr Gly Arg Leu Glu Glu Lys

65

70

75

ggc tgc aac att cgc aca cag tcc tac aaa tac aga ttc gcg tgg ggc 411

Gly Cys Asn Ile Arg Thr Gln Ser Tyr Lys Tyr Arg Phe Ala Trp Gly

80

85

90

gtg gtc acc tgc gag ccc ggg ccc ttc tgc cat gtg aac ctc tgt gcc 459

Val Val Thr Cys Glu Pro Gly Pro Phe Cys His Val Asn Leu Cys Ala

95

100

105

tgt gac cgg aag ctc gtc tac tgc ctc aag aga aac cta cgg agc tac 507

Cys Asp Arg Lys Leu Val Tyr Cys Leu Lys Arg Asn Leu Arg Ser Tyr

110

115

120

125

aac cca cag tac caa tac ttt ccc aac atc ctc tgc tcc tag gcctccccag 559

Asn Pro Gln Tyr Gln Tyr Phe Pro Asn Ile Leu Cys Ser

130

135

cgagctcctc ccagaccaag acttttgttc tgtttttcta caacacagag tactgactct 619

gcctgggtcc tgagagaggg tcctaagtca cagacctcag tctttctcga agcttggcgg 679

acccccaggg ccacactgta cctccagcg agtcccagga gaggactct ggtcatagga 739

cttggtaggg tcccagggtc cctaggctc cacttctgag ggcagcccct ctggtgcaa 799

gagctctcct ccaactcagg gttggctgtg tctcttttct tctctgaaga cagcgtcctg 859

gtccagttg gaacactttc ctgagatgca cttacttctc agcttctgcg atcagattat 919

catcaccacc accctccaga gaattttacg caagaagagc caaattgact ctctaaatct 979

ggtgtatggg tattaaataa aattcattct caaggct 1016

<210> 4

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 4

ggcccttctg ccattgtga 18

<210> 5

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 5

ccgtaggttt ctcttgaggc agta 24

<210> 6
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 6
tgtgcctgtg accggaagct cg

22

<210> 7
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 7
gaagggtgaag gtcggagtc

19

<210> 8
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 8
gaagatggtg atgggatttc

20

<210> 9
<211> 20
<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 9

caagcttccc gttctcagcc

20

<210> 10

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 10

tctccagtcg gaacattggt

20

<210> 11

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 11

gcagaccctg gagaccggg

20

<210> 12

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 12
ttgggcagac cctggagacc 20

<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 13
cttccttggg cagaccctgg 20

<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 14
cccatgagca acttccttgg 20

<210> 15
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 15
ctgctcccat gagcaacttc 20

<210> 16

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 16

cctcaaattcc tgctctaggg

20

<210> 17

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 17

ctcttttgcc tggcctcaaa

20

<210> 18

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 18

ggaggccttt catctctggg

20

<210> 19

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 19

aagccaggaa ccaagccagt

20

<210> 20

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 20

cactacaagc caggaaccaa

20

<210> 21

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 21

gcacactaca agccaggaac

20

<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 22

aggcacacta caagccagga

20

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 23

tycacagcag gcacactaca

20

<210> 24

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 24

cagcaagcct ccttgacag

20

<210> 25

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 25

tccagcaagc ctccttgac

20

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 26

ttttaggtcc agcaagcctc

20

<210> 27

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 27

gatcattgat ttttaggtcca

20

<210> 28

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 28

gcgttcttcc ctgtcacctt

20

<210> 29

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 29

cgtagtttgt cagggcggtc

20

<210> 30

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 30

ccagccgcag taacagccgt

20

<210> 31

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 31

tggtcattgcg cccaacagca

20

<210> 32

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 32

cagtggtcatt gcgccaaca

20

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 33
agcagtggtc atgcgccc

20

<210> 34
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 34
ccatagcagt ggtcatgcgc

20

<210> 35
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 35
gttgcagccc ttctcctcca

20

<210> 36
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 36

cgaaatgttgc agcccttctc

20

<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 37

tgtgcgaatg ttgcagccct

20

<210> 38

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 38

aggactgtgt gcgaatgttg

20

<210> 39

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 39

ttgtaggact gtgtgcgaat

20

<210> 40

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 40

gggctcgcag gtgaccacgc

20

<210> 41

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 41

cagaggttca catggcagaa

20

<210> 42

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 42

acaggcacag aggttcacat

20

<210> 43

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 43

cttccggtca caggcacaga

20

<210> 44

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 44

gacgagcttc cggtcacagg

20

<210> 45

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 45

gtagacgagc ttccggtcac

20

<210> 46

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 46

ggcagtagac gagcttcggg

20

<210> 47

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 47

ctgtggggttg tagctccgta

20

<210> 48

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 48

agtattggta ctgtggggttg

20

<210> 49

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 49

ggaaagtatt ggtactgttg

20

<210> 50
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 50
gaacaaaaagt cttggtctgg 20

<210> 51
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 51
gtgttgtaga aaaacagaac 20

<210> 52
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 52
agtactctgt gttgtagaaa 20

<210> 53
<211> 20
<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 53

agagtcagta ctctgtgttg

20

<210> 54

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 54

ctcttcaggaa ccaggcagag

20

<210> 55

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 55

actgaggtct gtgacttagg

20

<210> 56

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 56

caagcttcga gaaagactga

20

<210> 57

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 57

gtccgccaag cttcgagaaa

20

<210> 58

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 58

tggagggtac agtgtggccc

20

<210> 59

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 59

gactcgctgg aggggtacagt

20

<210> 60
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 60
tctcctggga ctgctggag 20

<210> 61
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 61
ctctcctggg actcgtgga 20

<210> 62
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 62
agagtcactc tcttgggact 20

<210> 63
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 63

ctaccaagtc ctatgaccag

20

<210> 64

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 64

accctaccaa gtcctatgac

20

<210> 65

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 65

gtggaggcct agggaccctg

20

<210> 66

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 66

cagaagtgga ggcctaggga

20

<210> 67

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 67

gccctcagaa gtggaggcct

20

<210> 68

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 68

gagctcttgg caccagaggg

20

<210> 69

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 69

ggaggagagc tcttggcacc

20

<210> 70

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 70

caaccctgag ttggaggaga

20

<210> 71

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 71

cagccaaccc tgagttggag

20

<210> 72

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 72

gctgtcttca gagaagaaaa

20

<210> 73

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 73

gacgctgtct tcagagaaga

20

<210> 74

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 74

gttccaactg gagccaggac

20

<210> 75

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 75

ggaaaagtgtt ccaactggag

20

<210> 76

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 76

ctcaggaaag tgttccaact

20

<210> 77
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 77
gtgcatctca ggaaagtgtt

20

<210> 78
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 78
gaagtaagtg catctcagga

20

<210> 79
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 79
gagaagtaag tgcattcag

20

<210> 80
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 80

agctgagaag taagtgcac

20

<210> 81

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 81

cytaaaattc tctggagggt

20

<210> 82

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 82

ccatacacca gatttagaga

20

<210> 83

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 83

atacccatac accagattta

20

<210> 84

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 84

gaatgaattt tatttaatac

20